

Name: _____

Remediation Factoring – Difference of Squares – Version 1

Directions: Please fully factor the following expressions.

1. $x^2 - 25$

$$(x-5)(x+5)$$

2. $y^2 - 36$

$$(y-6)(y+6)$$

3. $9x^2 - 1$

$$(3x+1)(3x-1)$$

4. $25x^6 - 64$

$$(5x^3-8)(5x^3+8)$$

5. $225 - k^2$

$$(15-k)(15+k)$$

6. $x^8 - 81$

$$(x^4-9)(x^4+9) \\ (x^2-3)(x^2+3)(x^4+9)$$

7. $x^2y^8 - 1$

$$(xy^4-1)(xy^4+1)$$

8. $16x^2 - 4$

$$4(x^2-1) \\ 4(x-1)(x+1)$$

9. $200x^2 - 2$

$$2(100x^2-1) \\ 2(10x+1)(10x-1)$$

10. $32x^2 - 2y^2$

$$2(16x^2-y^2) \\ 2(4x-y)(4x+y)$$